

RAW SEQUENCE LISTING

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Application Serial Number: 10/707,747A
Source: FWO
Date Processed by STIC: 8/3/05

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RAW SEQUENCE LISTING DATE: 08/03/2005
PATENT APPLICATION: US/10/707,747A **TIME:** 15:05:14

Input Set : D:\Sequence Listings.ST25.txt
Output Set: N:\CRF4\08032005\J707747A.raw

3 <110> APPLICANT: University of South Florida
5 <120> TITLE OF INVENTION: DETECTION OF RED TIDE ORGANISMS BY NUCLEIC ACID
AMPLIFICATION
7 <130> FILE REFERENCE: 1372.120PCR
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/707,747A
C--> 9 <141> CURRENT FILING DATE: 2004-01-08
9 <160> NUMBER OF SEQ ID NOS: 8
11 <170> SOFTWARE: PatentIn version 3.2
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 20
15 <212> TYPE: DNA
16 <213> ORGANISM: artificial sequence
18 <220> FEATURE:
19 <223> OTHER INFORMATION: Forward primer designed to amplify and detect the 91-bp
region of
20 the rbcL gene of K. brevis.
22 <400> SEQUENCE: 1
23 tgaaacgtta ttgggtctgt
26 <210> SEQ ID NO: 2
27 <211> LENGTH: 22
28 <212> TYPE: DNA
29 <213> ORGANISM: artificial sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Reverse primer designed to amplify and detect the 91-bp
region
33 of the rbcl gene specific K. brevis.
35 <400> SEQUENCE: 2
36 aggtacacac ttccgtaaac ta
39 <210> SEQ ID NO: 3
40 <211> LENGTH: 19
41 <212> TYPE: DNA
42 <213> ORGANISM: artificial sequence
44 <220> FEATURE:
45 <223> OTHER INFORMATION: Fluorogenic probe designed to amplify and detect the 91-bp
46 region of the rbcl gene specific K. brevis.
48 <400> SEQUENCE: 3
49 ttaaccttag tctcgggtta
52 <210> SEQ ID NO: 4
53 <211> LENGTH: 19
54 <212> TYPE: DNA
55 <213> ORGANISM: artificial sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Real Time NASBA forward primer for the marker region of rbcL
gene
19

59 specific to *K. brevis*.
61 <400> SEQUENCE: 4
62 acgttattgg gtctgtgta

19

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65 <210> SEQ ID NO: 5
66 <211> LENGTH: 50
67 <212> TYPE: DNA
68 <213> ORGANISM: artificial sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Reverse primer for real time NASBA to detect the marker region
of
72 the rbcL gene specific to *K. brevis*.
74 <400> SEQUENCE: 5
75 aattctataa cgactcacta tagggagaag gtacacactt tcgtaaaacta 50
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 33
80 <212> TYPE: DNA
81 <213> ORGANISM: artificial sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Molecular beacon used for real time NASBA assay.
86 <400> SEQUENCE: 6
87 cgatcgctta gtctcggtt atttttcga tcg 33
90 <210> SEQ ID NO: 7
91 <211> LENGTH: 19
92 <212> TYPE: DNA
93 <213> ORGANISM: artificial sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: PCR primer set was designed with sequence data from *Karenia*
97 mikimotoi (GenBank accession no. ABO34635) by modifying existing
98 chromophyte rbcL primers in order to amplify a 554-bp region
99 (approximately one-third) of *Karenia*'s rbcL gene (forward
102 <400> SEQUENCE: 7 19
103 atgatgaraa yattaactc
106 <210> SEQ ID NO: 8
107 <211> LENGTH: 21
108 <212> TYPE: DNA
109 <213> ORGANISM: artificial sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: PCR primer set was designed with sequence data from *Karenia*
113 mikimotoi (GenBank accession no. ABO34635) by modifying existing
114 chromophyte rbcL primers in order to amplify a 554-bp region
115 (approximately one-third) of *Karenia*'s rbcL gene (reverse
118 <400> SEQUENCE: 8
119 atttgtcccg cattgattcc t 21

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date